



1 POWERED CUTTING SURFACE WITH PROTECTIVE GUARD FOR  
2 EQUINE TEETH

3 **BACKGROUND OF THE INVENTION**

4 FIELD OF THE INVENTION

5 This invention relates to the art of tooth maintenance for  
6 large animals and more particularly to a set of tools which may be used  
7 under powered motion for care and maintenance such as removing a  
8 selected portion of the exposed surface of teeth, such as equine teeth,  
9 with the powered hand being guided into the mouth of the horse. The  
10 powered tool is partially guarded so as to protect fleshy portions of the  
11 horse's mouth from being engaged by the powered tool. The tool may  
12 have a rotary cutting surface of a selected size and shape, sometimes  
13 commonly called a burr, or the tool may be a rotary cut-off disk. The  
14 selected tool, either the burr or cut-off disk, is supported and partially  
15 enclosed in a protective guard formed as a hand piece that may be  
16 guided into the mouth of a horse to perform care and maintenance on a  
17 selected portion of the teeth. The hand piece fabricated according to the  
18 teaching of this invention provides for quick on and off attachment of a  
19 selected cutting surface for maintenance of a preselected portion of teeth  
20 within the same hand piece or another hand piece sized to ease access to  
21 the next selected portion of the horse's mouth. The selected cutting  
22 surface is mounted within the protective guard/hand piece arrangement  
23 that may further incorporate a vacuum channel whereby the tooth dust  
24 and debris created by the powered cutting surface removing a portion of  
25 tooth is sucked out of the mouth of the horse. The motion of the tooth  
26 surface removal tool may be changed from rotary to powered  
27 reciprocating motion for a selected portion of the teeth. Attaching the  
28 powered drive to the rotary cutting surface by means of an adjustable  
29 clutch further enhances protection from injury to the inside of the  
30 mouth of the horse.

*Substitute Specification  
Entry Approved 9/11*



**POWERED CUTTING SURFACE WITH PROTECTIVE GUARD FOR  
EQUINE TEETH**

## BACKGROUND OF THE INVENTION

## FIELD OF THE INVENTION

This invention relates to the art of tooth maintenance for large animals and more particularly to a set of tools which may be used under powered motion for care and maintenance such as removing a selected portion of the exposed surface of teeth, such as equine teeth, with the powered hand being guided into the mouth of the horse. The powered tool is partially guarded so as to protect fleshy portions of the horse's mouth from being engaged by the powered tool. The tool may have a rotary cutting surface of a selected size and shape, sometimes commonly called a burr, or the tool may be a rotary cut-off disk. The selected tool, either the burr or cut-off disk, is supported and partially enclosed in a protective guard formed as a hand piece that may be guided into the mouth of a horse to perform care and maintenance on a selected portion of the teeth. The hand piece fabricated according to the teaching of this invention provides for quick on and off attachment of a selected cutting surface for maintenance of a preselected portion of teeth within the same hand piece or another hand piece sized to ease access to the next selected portion of the horse's mouth. The selected cutting surface is mounted within the protective guard/hand piece arrangement that may further incorporate a vacuum channel whereby the tooth dust and debris created by the powered cutting surface removing a portion of tooth is sucked out of the mouth of the horse. The motion of the tooth surface removal tool may be changed from rotary to powered reciprocating motion for a selected portion of the teeth. Attaching the powered drive to the rotary cutting surface by means of an adjustable clutch further enhances protection from injury to the inside of the mouth of the horse.